TREADMILL SERVICE MANUAL

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Maintain:all treadmills

SECTION 1:Health Maintain

1.1 running belt tension adjust

1.2 V-belt tension adjust

1.3 running board add silicon oil

1.4 V-belt clean

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2. Earth granding caution

SECTION 3:Electronic Technical Element Drawing

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2. PCB Error Code and Solution

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- ☐ Noise

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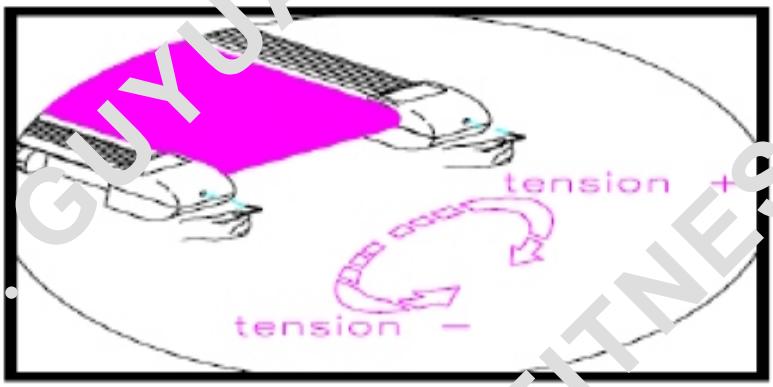
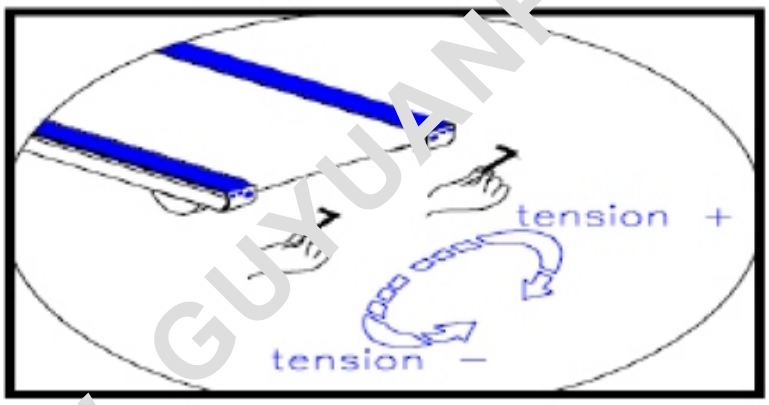
SECTION 1:Health Maintain

1. 1running belt tension adjust





Belt tension: *0.9~1.1 lbs*

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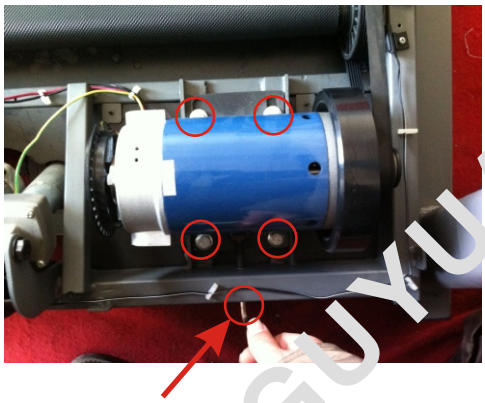
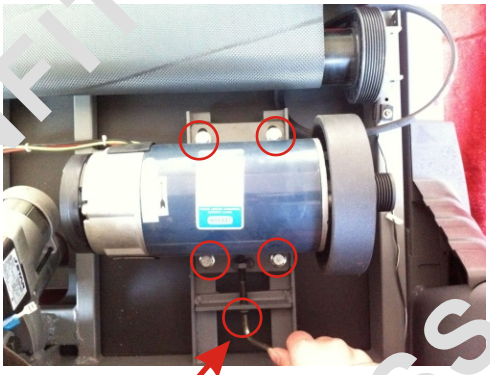
1.2 V-belt tension adjust



Adjusted screw



Adjusted screw

firstly please loose 4 screws in the motor, then move adjusted screw as the photo by clockwise,the tense will increase, move it by counter clockwise,the tense will reduce

V-belt tension: *2.0~2.5 lbs*

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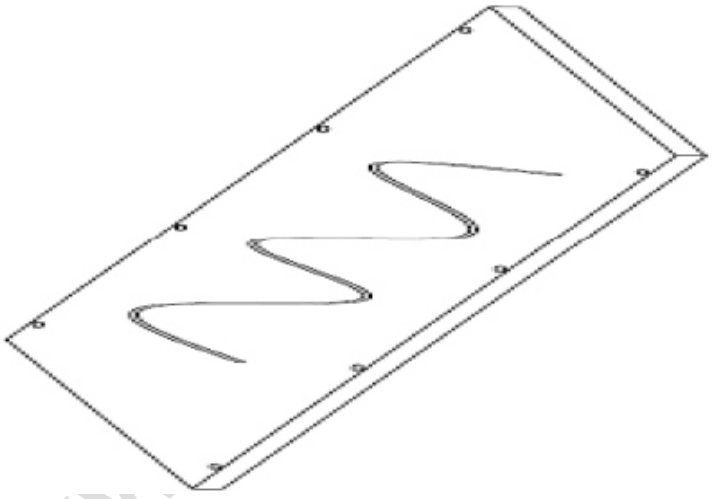
1. 3 Running board add silicon oil

1. Frequency:2 times/per month
   or 50 hours use time
2. Brand:DOWCORNING 1000 SILICON
3. The way to add oil:please refer to
   the belowed "S" way
4. oil position: on the running board



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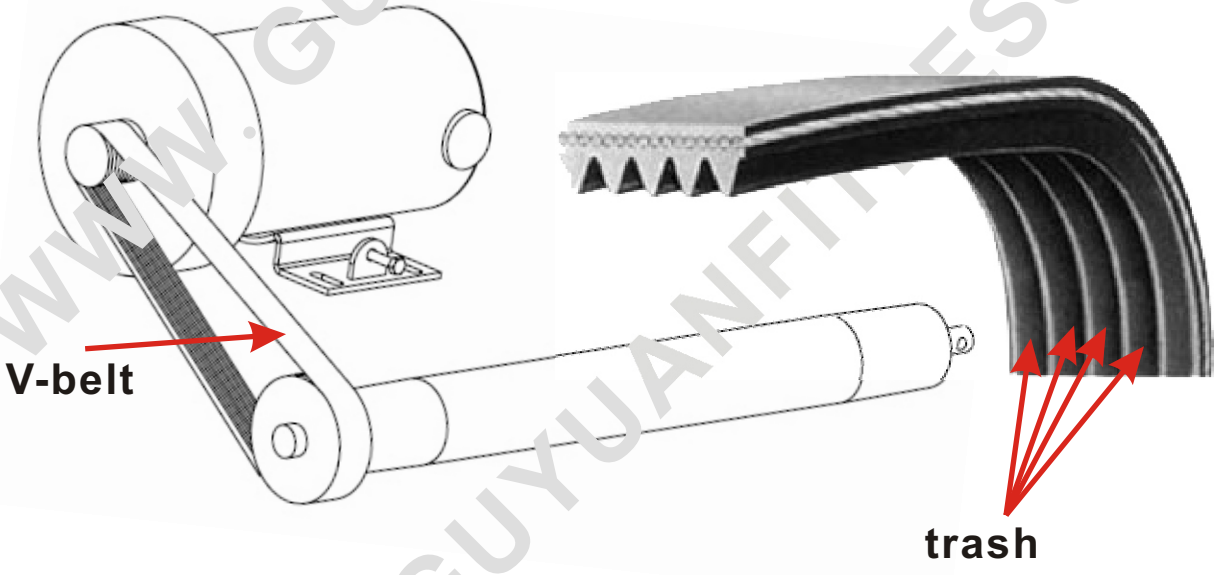
1. 4 Clean V-belt

1. Frequency: 200hours per time
2. Tool: scissors or sharp knife
3. The clean way: using the sharp head to rub the trash



CAUTION:

If v-belt /motor/roller is dirty, will make noise

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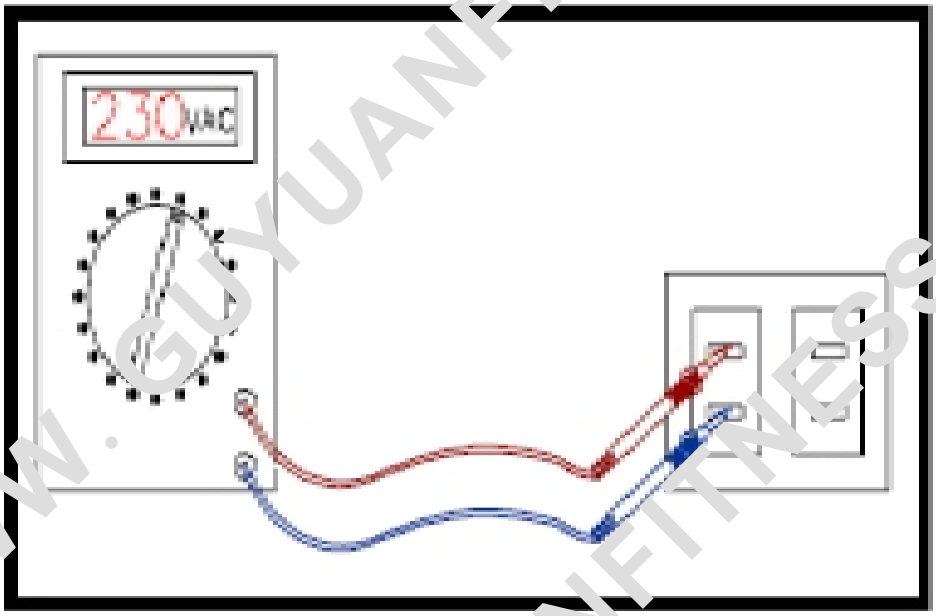
Section 2:Important Safety Introduce

Check the voltage is correct.



CAUTION:

If the circuit turned off,please check the power voltage is normal or not. the fuse's current is more than 10A or not,leakage protector's current is more than 5mA or not

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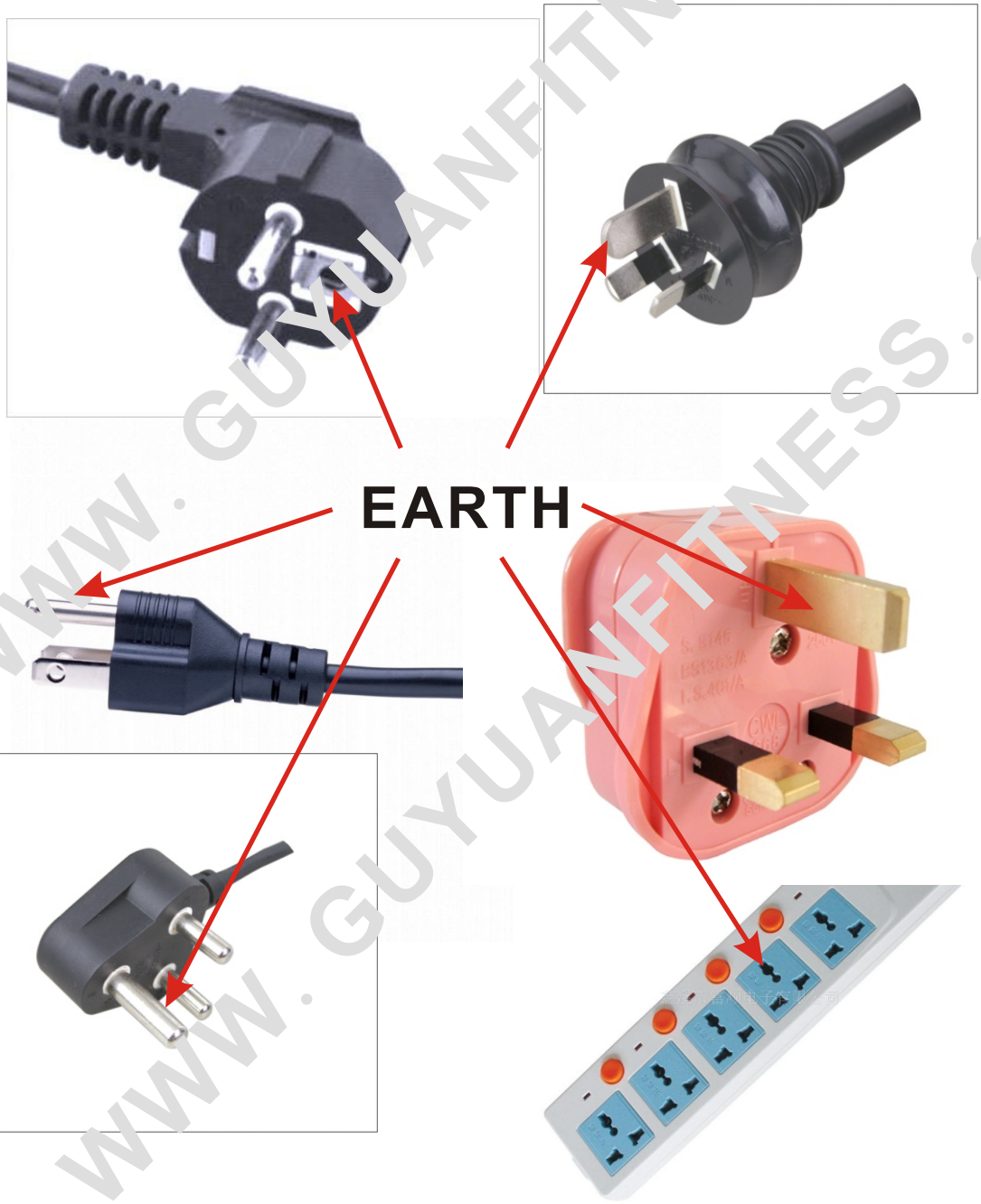
MUST USE EARTH GRANDING SOCKET!



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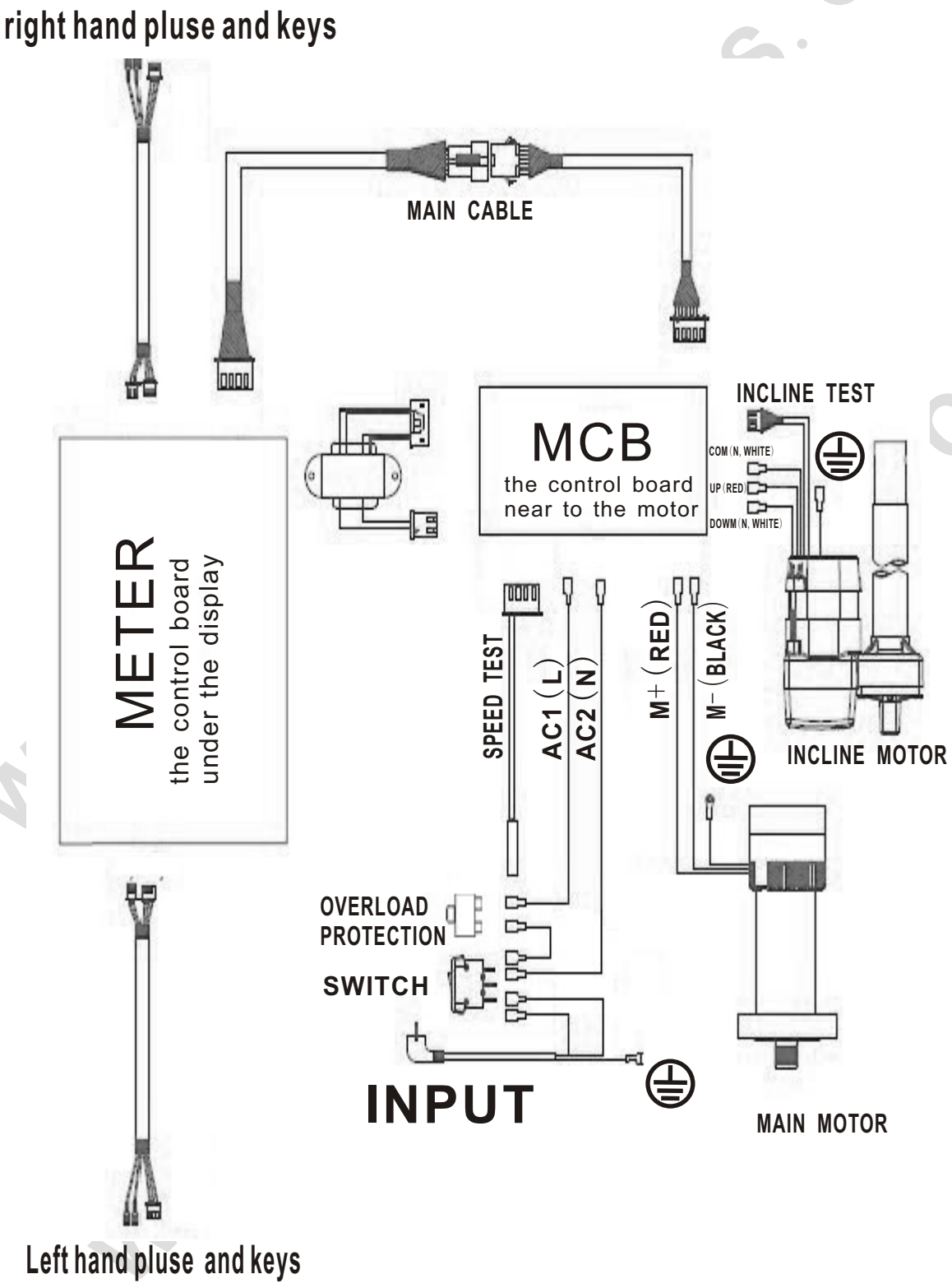
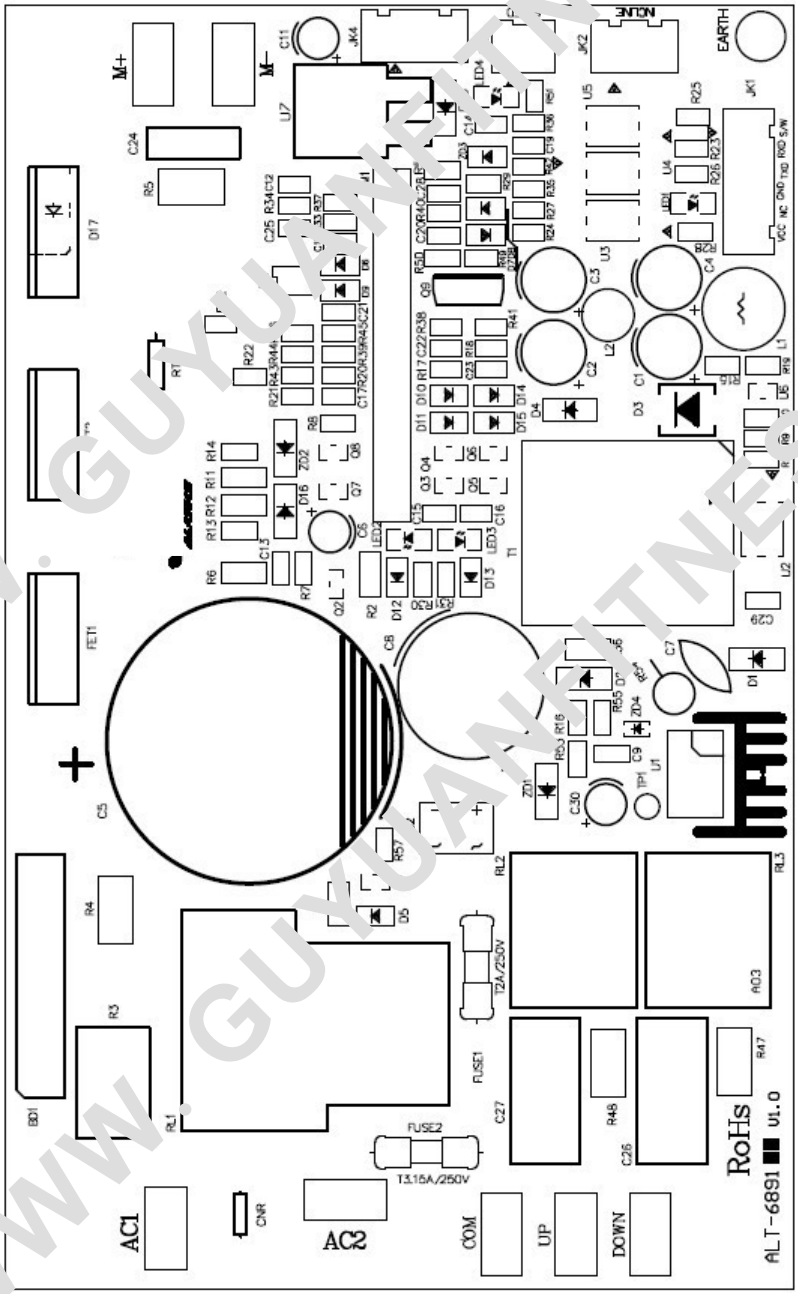
SECTION 3

System Work Route



MCB Drawing (new MCB)

model:300x, 4000A,4000C,440x, 460x,505x.



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MCB Indication Light & Solution(NEW MCB)

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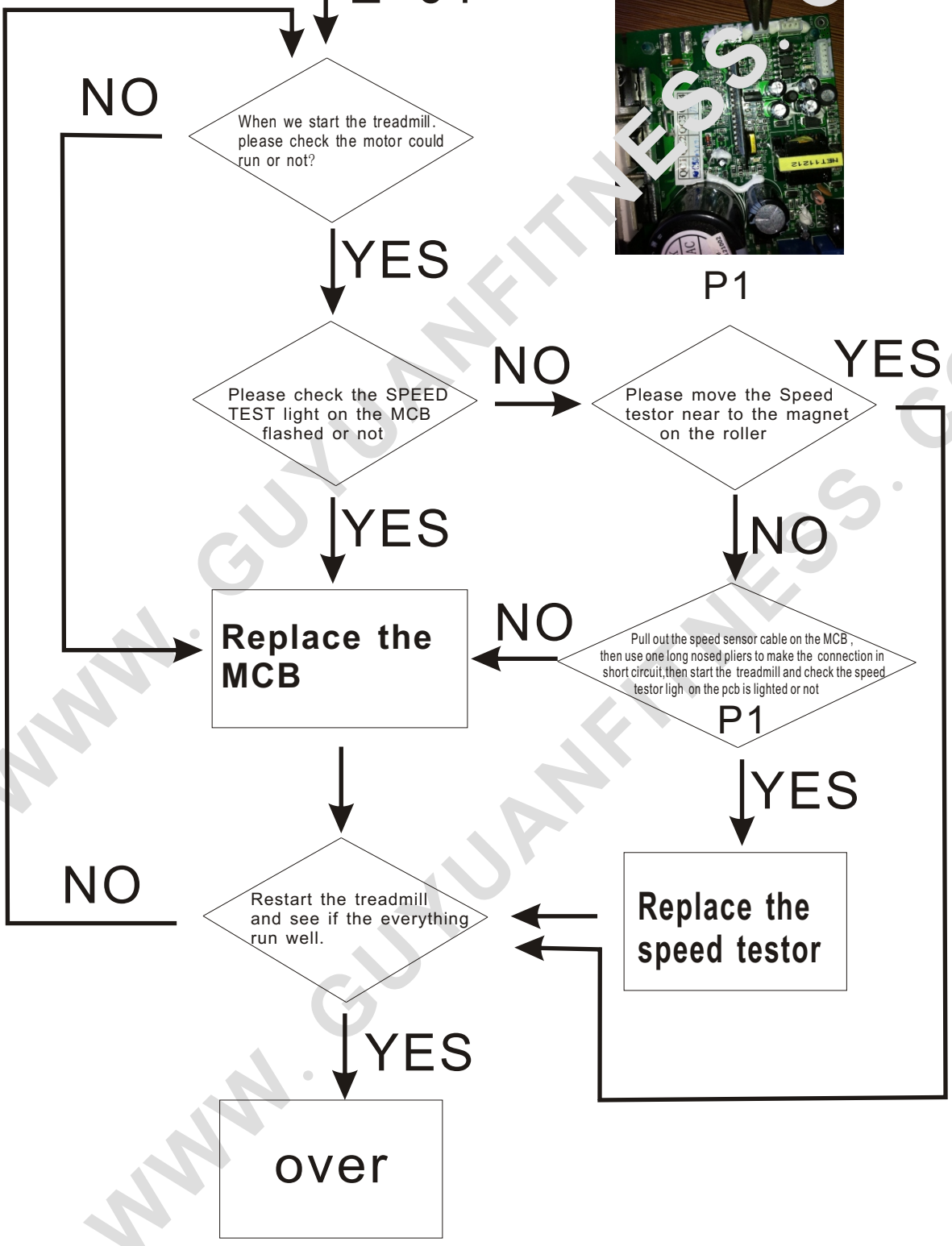
Error Code and Solution (NEW MCB)

ERROR CODE	Error	reason	resolve way
E-01	didn't detect signal from the speed indicator	1. the speed sensor cable is long way to the magnet in the front roller; 2. the speed sensor cable is broken 3. maybe the magnetic force of the roller's magnet is not strong enough 4. the control board is broken	1. we need to move the speed sensor cable near to the magnet in the roller; 2. repalce one new speed sensor cable 3. replace the magnet 4. replace the control board near to the motor(Just the MCB we called)
E-02	the volt is overload and exceed the marked (volt)	1. the voltage is not very stable in our customer's house and the peak voltage is too high; 2. the value of roller's diameter setted wrong 3. the control board is broken	1. we need to increase one filter to stable the voltage 2. we need to reset the value of roller's diameter when our treadmill in self inspection; 3. replace the control board near to the motor
E-03	the motor is overload and exceed the marked (amps)	1. the motor is overload 2. there is dusty in the motor or roller; 3. the roller resistance it too big; 4. the MCB is broken; 5. the motor is broken	1.reduce the loading to normal and make sure the loading will not over the rule loading; 2. clear the dusty 3. add lubricant 4. replace the MCB 5. replace the motor
E-04	the wrong connection bewteen the motor and conrol board	1. the main motor cable is not connect well or loosed 2. motor is broken; 3.MCB is broken;	1. refix the main motor cable firmly and in right position 2. replace new motor; 3. replace new MCB;
E-06	poor connection bewteen the display and controller	1. the connect line from the meter to the MCB is loosed 2. the connect line from the meter to the MCB is broken 3. the meter is broken 4.the MCB is broken	1. refix the connect line firmly 2. replace one new connect lind 3. replace the meter 4. replace the MCB
E-07	the safety key of electronic meter has been placed off	1. the safety key is not fixed on 2. the sensor line of the safet key is broken 3. the interface between the meter to safety key is broken;	1. put on the saftey key; 2. replace the sensor line of the safety key; 3. replace the meter;
E-09	incline self-inspecton failure	1. the signal line of the incline motor is connect wrong 2. the control line of the incline motor is connect wrong 3. the MCB is broken 4. the incline motor is broken	1. please check the signal line's sequence +5V ,signal、GND; 2. check the control lien UP(red) 、COM (white) 、DOWN (black) ; 3. replace new MCB 4. Replace new incline motor
E-0C	poor connection of motor wire to controller ,damaged IGBT or defective circuit of power relay	1. the MCB is broken;	1. replace the MCB
E-0P	speed self-inspection failure	1.the speed sensor cable is too long away the magnet ; 2. the speed sensor cable is broken ; 3.the polarity of the magnet is not strong ; 4.the speed is unstable 5. could not up to the highest speed because of the seted diameter of the roller is not right 6. the speed interface is broken in the MCB;	1. Move the speed sensor near to the magnet 2. replace speed sensor; 3. replace one new magnet; 4. adjust the MCB'S torque 5. reset the diameter of the roller; 6. replace the MCB;

E-01 Approach

P1


E-01
When we start the treadmill. please check the motor could run or not?
NO
YES
Please check the SPEED TEST light on the MCB flashed or not
NO
Please move the Speed testor near to the magnet on the roller
YES
YES
NO
Replace the MCB
NO
Pull out the speed sensor cable on the MCB , then use one long nosed pliers to make the connection in short circuit,then start the treadmill and check the speed testor ligh on the pcb is lighted or not
P1
YES
NO
Restart the treadmill and see if the everything run well.
Replace the speed testor
YES
over

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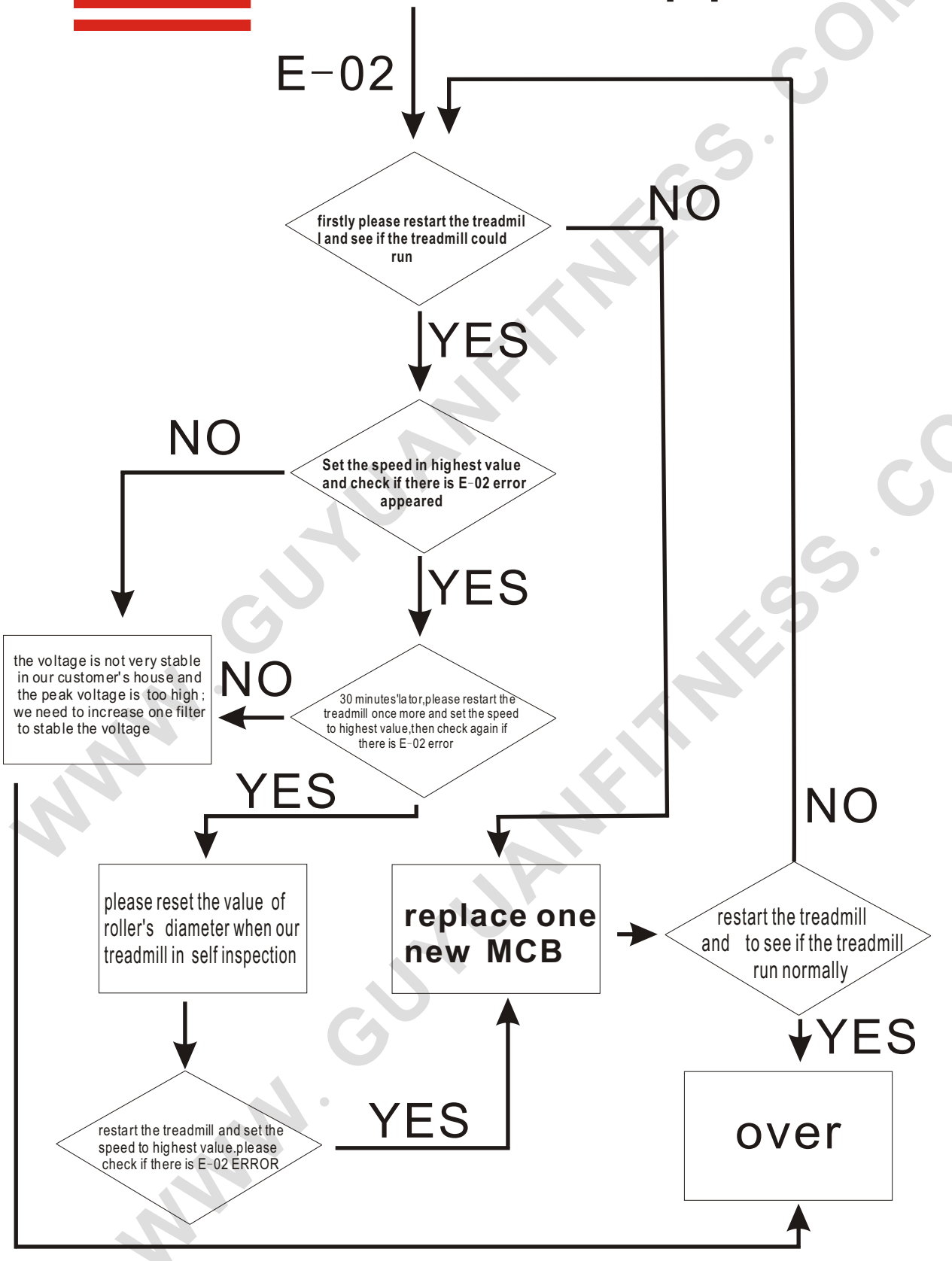
E-02 Approach


E-02
firstly please restart the treadmil l and see if the treadmill could run
NO
YES
NO
Set the speed in highest value and check if there is E-02 error appeared
YES
the voltage is not very stable in our customer's house and the peak voltage is too high ; we need to increase one filter to stable the voltage
NO
30 minutes'lator,please restart the treadmill once more and set the speed to highest value,then check again if there is E-02 error
YES
NO
please reset the value of roller's diameter when our treadmill in self inspection
replace one new MCB
restart the treadmill and to see if the treadmill run normally
YES
restart the treadmill and set the speed to highest value,please check if there is E-02 ERROR
YES
over

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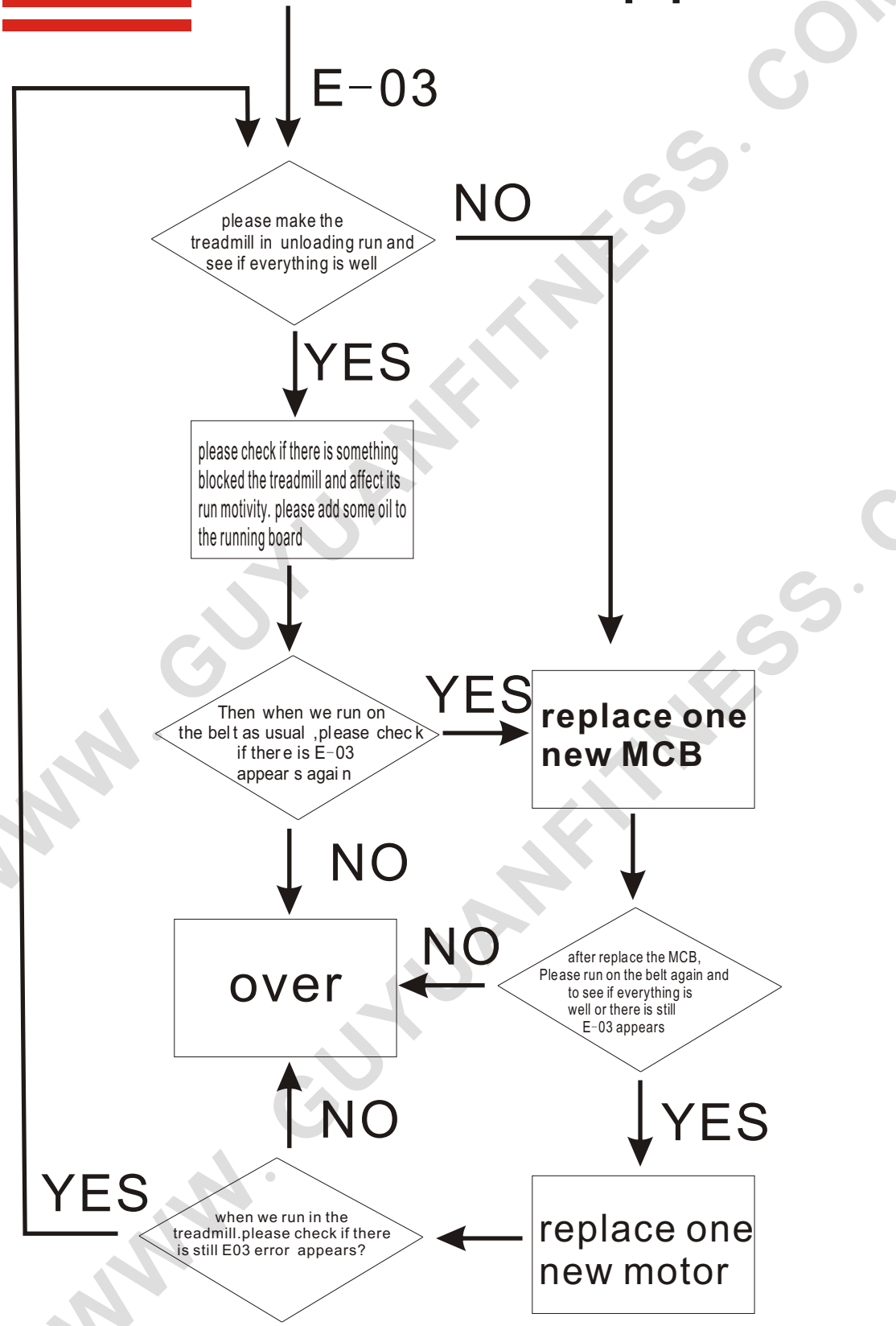
E-03 Approach


E-03
please make the treadmill in unloading run and see if everything is well
NO
YES
please check if there is something blocked the treadmill and affect its run motivity. please add some oil to the running board
Then when we run on the belt as usual ,please check if there is E-03 appears again
YES
replace one new MCB
NO
over
NO
after replace the MCB, Please run on the belt again and to see if everything is well or there is still E-03 appears
NO
YES
YES
when we run in the treadmill.please check if there is still E03 error appears?
replace one new motor

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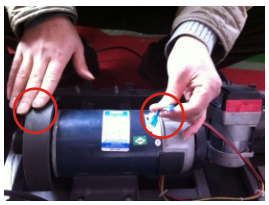
E-04 Approach



E-04

Please check the motor connect line (M+ and M-, one is red color ,the other is black color) are connected well, the two line you could read from Page 10

NO

please reconnect this two line well

YES

YES

Pull the V-belt out , meanwhile. please also pull the black cable(M-) and red cable(M+) in the MCB out ,then let us compared the strength we used to drive the motor is the same or not,when we make this two cable in short circuit or not

SAME

replace new motor

DIFFERENT

replace new MCB

Restart the treadmill and see if there is still E-04 error

YES

NO

over

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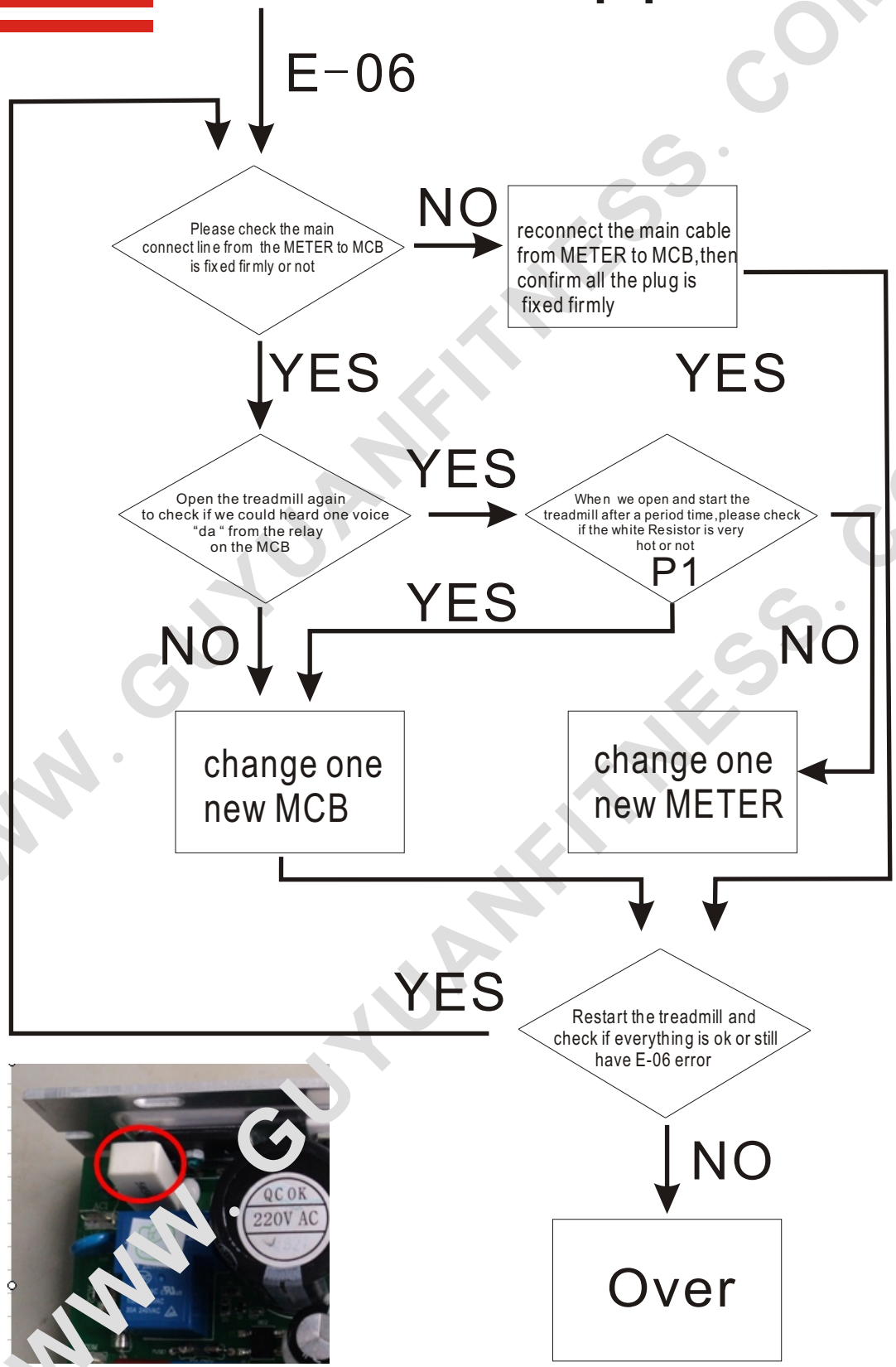
E-06 Approach


E-06
Please check the main connect line from the METER to MCB is fixed firmly or not
NO
reconnect the main cable from METER to MCB,then confirm all the plug is fixed firmly
YES
YES
Open the treadmill again to check if we could heard one voice "da " from the relay on the MCB
YES
When we open and start the treadmill after a period time,please check if the white Resistor is very hot or not
P1
YES
NO
NO
change one new MCB
change one new METER
YES
Restart the treadmill and check if everything is ok or still have E-06 error
NO
Over

P1

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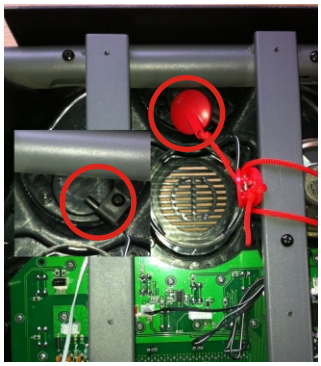
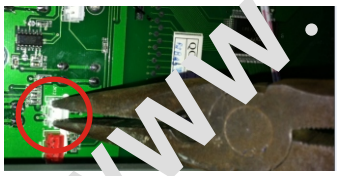
E-07 Approach





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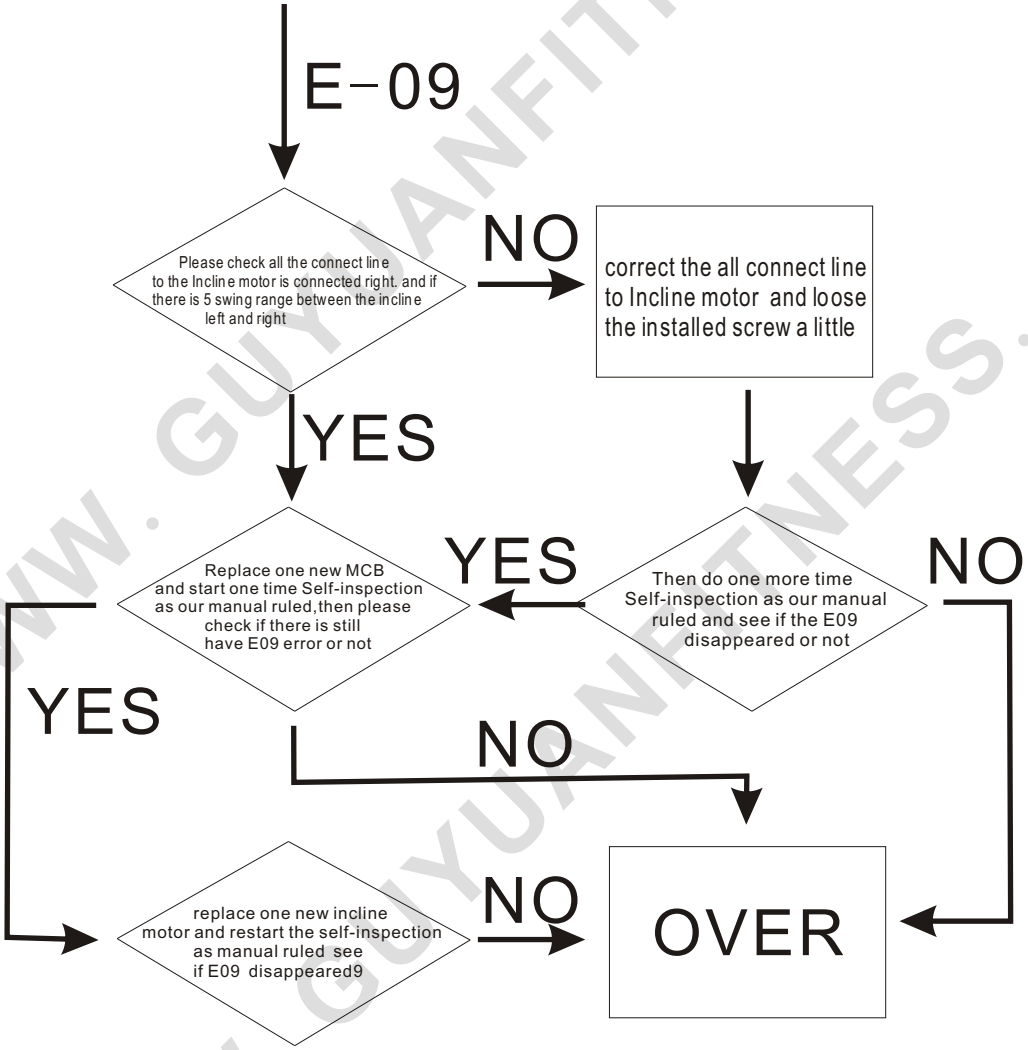
E-09 Approach


E-09
Please check all the connect line to the Incline motor is connected right. and if there is 5 swing range between the incline left and right
NO
correct the all connect line to Incline motor and loose the installed screw a little
YES
Replace one new MCB and start one time Self-inspection as our manual ruled,then please check if there is still have E09 error or not
YES
Then do one more time Self-inspection as our manual ruled and see if the E09 disappeared or not
NO
YES
NO
replace one new incline motor and restart the self-inspection as manual ruled see if E09 disappeared9
NO
OVER

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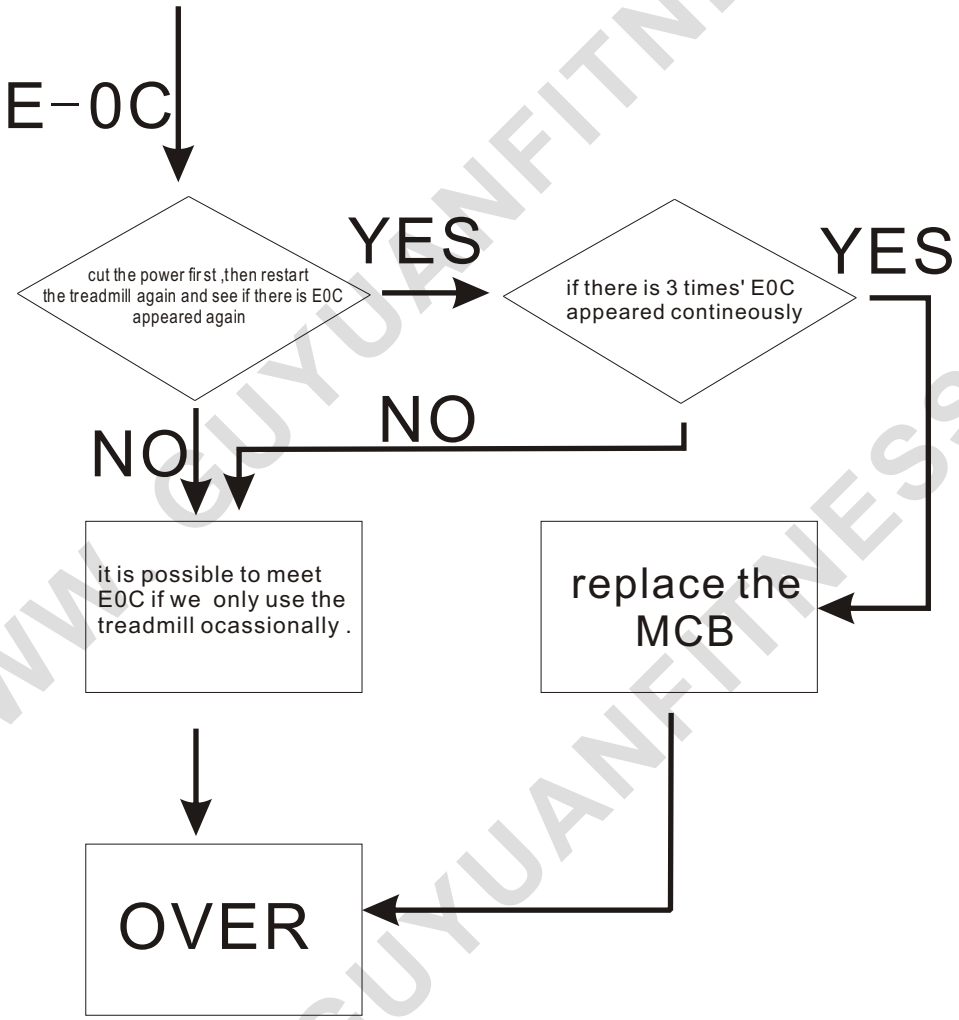
E-0C Approach


E-0C
cut the power first ,then restart the treadmill again and see if there is E0C appeared again
YES
if there is 3 times' E0C appeared contineously
YES
NO
NO
it is possible to meet E0C if we only use the treadmill ocassionally .
replace the MCB
OVER

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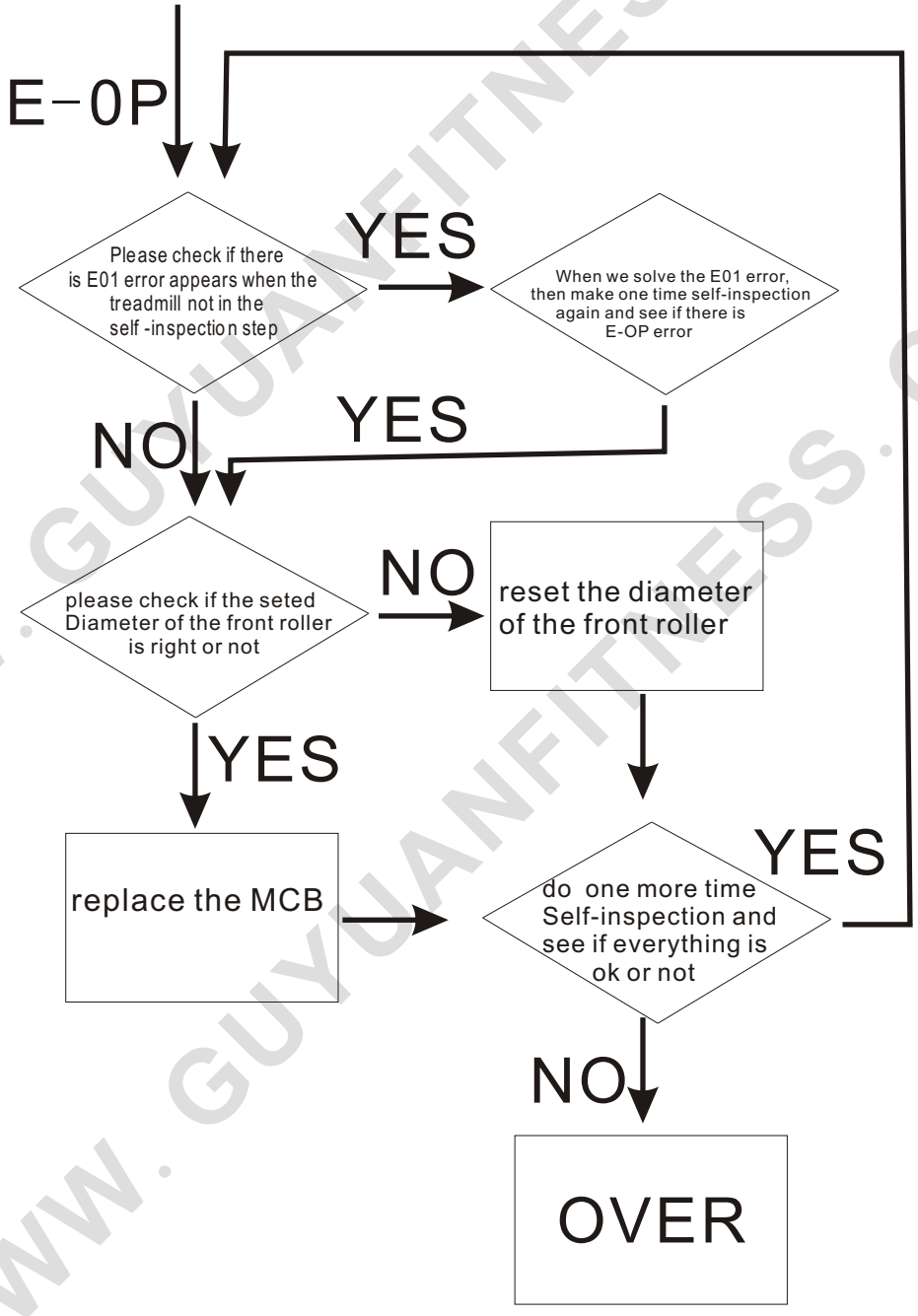
E-0P Approach


E-0P
Please check if there is E01 error appears when the treadmill not in the self -inspection step
YES
When we solve the E01 error, then make one time self-inspection again and see if there is E-OP error
NO
YES
please check if the seted Diameter of the front roller is right or not
NO
reset the diameter of the front roller
YES
replace the MCB
do one more time Self-inspection and see if everything is ok or not
YES
NO
OVER

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IMPORTANT!!!

When need MCB urgently ,but no same model MCB in whorehouse can exchange same color MCB in different models,but must follow the principle: bigger power MCB can be used in small power MCB under same elements,but small power MCB can not instead.

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Urgently replace some small components in MCB or Motor

1, MCB and motor is big parts in the treadmill.when we are using a speed machine,they need to do the health maintain like car.

2, Need to clean the machine and parts due to dust and fabric will caused MCB short circuit or increase the resistance and current then damage the MCB.

Tool:a clean fabric and blower.

3, Need to replace some metal parts when it rub off,like carbon brush in motor,roller...

Tool: screwdriver

4, So the machine quality guarantee period is 1 year.After 1 year,if user also use the treadmill regularly,the sales agent can do service in charge in home or awake user to do health maintain by the mselves like clean the machine outside and inside.

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SECTION :4 Trouble Solutions

No display on meter

Be sure the power is right.

Please check all the connection line is fixed firmly or not.and PCB POWER light is lighted or not.

If lighted,it is the problem of Main cable ,meter and handbar.please check this three parts.
if not lighted,it is the problem of MCB or the connection line between Switch and MCB is not connected well

1, If new treadmill,be sure the connect cable all pin is right.

2, If used treadmill,it maybe some PCB components broken or transformer broken.let the engineer check use multimeter.

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Meter keys not work

1, All keys not work,no beep sounds, please check handbar keys and meter keys will short circuit.

2, A part key not work,no beep sound, splease lift the meter sticker to check this keysome times is the key board not work.

Incline function not work

1, Incline motor not work,but in MCB INCLINE/ DECLINE LEDlight and work, it's mean incline motor is broken.

2, Sometime is incline keys not work.

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Noise

1, Noise usually come from motor, v-belt,roller,running belt,incline motor,incline motor holder.

2, Please check these parts and analyzed.

SECTION 5:Complaint Form

Please see attached sheet.

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WISH YOU HAVE A GOOD BUSINESS AT FUTURE! THANKS!

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